Application No.: 09/658,174 Docket No.: SCEI 3.0-029

Please insert new Abstract, as follows:

ABSTRACT

A control apparatus includes a pressure-sensitive device for providing an analog signal responsive to an applied pressure, a level segmenting unit for segmenting the analog signal into output levels and an analog-to-digital (A/D) converting unit for converting the segmented analog signal into a digital signal having a plurality of bits.